

Christopher R. Culpepper

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OBJECTIVE A Co-Op position in the field of Computer Engineering for the Spring and Summer of 2016 for the purpose of furthering my education.

EDUCATION *Bachelor of Science*, Computer Engineering
Rochester Institute of Technology, Rochester NY, Expected May 2017

Applied Programming	Computer Science
Introduction to Software Engineering	Calculus I-III
Digital System Design	Physics I-II
Assembly Language Programming	

COMPETENCES AND SKILLS

Eagle Scout	Microsoft Office
A+ Certified	Maintaining Linux and Windows Systems

Languages & Software:

C/C++	ARM & HCS12 Assembly
Python	AutoIt
VHDL	L ^A T _E X
Visual Basic for Applications (VBA)	

EXPERIENCE *Systems Engineering Co-Op* *July 2013 - July 2016*
General Dynamics Advanced Information Systems, Pittsfield MA

- Performed software and systems testing on control software.
- Developed automated testing tracker that was used to status testing progress to management.
- Developed an application to measure and track code base sizes to assist with the peer review process.

Assembly Language Lab Teaching Assistant *January 2015 - Present*
Computer Engineering Department, RIT, Rochester, NY

- Responsible for grading student reports and assisting students with ARM assembly language.

PROJECTS

High Altitude Balloon Telemetry Tracker

- Communicates GPS and other sensor data to the Amateur Radio APRS network
- Provides control and tracking for high altitude balloons or other vehicles
- Required PCB design and construction, embedded programming, protocol implementation, RF knowledge

Space Exploration Club High Altitude Balloon Data Logger

- Worked with others to create and build an electronics payload for a high altitude balloon.
- Balloon serves as a testbed for photonic communication for a cube satellite still in development
- Logger able to log position, pressure, altitude and temperature
- Required embedded system design, circuit design, power management

Freescall Car Cup Competition

- Worked with partners to create a line-following autonomous vehicles
- Required embedded programming, image processing and control theory

Assembly Language Pong Game

- Worked with partner to create a 1.5D Pong game for a school project in HCS12 assembly
- Required HCS12 assembly, PWM, ADC and digital output

COMMUNITY SERVICE

Adult leader in Boy Scout Troop 88, North Adams, MA

- Assistant Scoutmaster
- Mentored Scouts to achieve rank and acquire valuable life skills
- Assisted with multiple community service projects

Radio communication at multiple road rallies

- Responsible for maintaining communication for racing stages and to central management
- Relayed pertinent information to competitors, stage captain and race officials
- Operated in a high-stress environment to prevent accidents and mistakes

EXTRA-CURRICULAR ACTIVITIES

Amateur Radio Extra
Motorcycle and automobile repair
Member of the K2GXT RIT Amateur Radio Club